

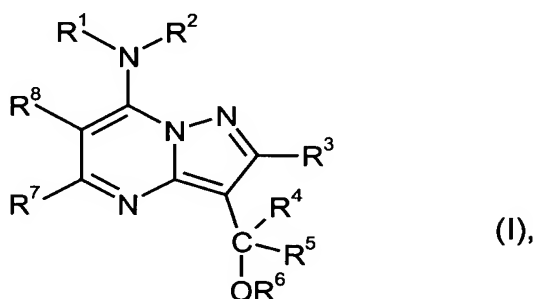
## AMENDMENTS TO THE CLAIMS:

Please change the heading at page 112, line 1, from "Claims" to --WHAT IS CLAIMED IS:--

The following listing of claims will replace all prior versions of claims in the application.

Claims 1-10 (canceled)

-- Claim 11 (new): A pyrazolopyrimidine of formula (I)



in which

- R<sup>1</sup> represents optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, or optionally substituted heterocyclyl,
- R<sup>2</sup> represents hydrogen or alkyl, or
- R<sup>1</sup> and R<sup>2</sup> together with nitrogen atom to which they are attached represent an optionally substituted heterocyclic ring,
- R<sup>3</sup> represents hydrogen, halogen, optionally substituted alkyl, or optionally substituted cycloalkyl,
- R<sup>4</sup> represents hydrogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted alkoxyalkyl, optionally substituted alkenyl, optionally substituted alkynyl, or optionally substituted benzyl,
- R<sup>5</sup> represents hydrogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted alkoxyalkyl, optionally substituted alkenyl, optionally substituted alkynyl, or optionally substituted benzyl,

R<sup>6</sup> represents hydrogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted alkoxyalkyl, optionally substituted alkenyl, optionally substituted alkynyl, or optionally substituted benzyl, or

R<sup>5</sup> and -OR<sup>6</sup> together represent a radical of the formula  $-O-(CH_2)_p-O-$

in which

p represents an integer from 1 to 5, and

1 to 3 hydrogen atoms are optionally replaced by methyl, ethyl, hydroxy, methoxy, ethoxy, hydroxymethyl, methoxymethyl, or ethoxymethyl,

R<sup>7</sup> represents halogen, CN, optionally substituted alkoxy, optionally substituted alkylthio, optionally substituted alkylsulfinyl, optionally substituted alkylsulfonyl, or optionally substituted alkyl, and

R<sup>8</sup> represents optionally substituted aryl.

Claim 12 (new): A pyrazolopyrimidine of formula (I) as claimed in Claim 11, in which

R<sup>1</sup> represents alkyl having 1 to 6 carbon atoms that is optionally mono- to pentasubstituted by identical or different substituents selected from the group consisting of halogen, cyano, hydroxy, alkoxy having 1 to 4 carbon atoms, and cycloalkyl having 3 to 6 carbon atoms; represents alkenyl having 2 to 6 carbon atoms that is optionally mono- to trisubstituted by identical or different substituents selected from the group consisting of halogen, cyano, hydroxy, alkoxy having 1 to 4 carbon atoms, and cycloalkyl having 3 to 6 carbon atoms; represents alkynyl having 3 to 6 carbon atoms that is optionally mono- to trisubstituted by identical or different substituents selected from the group consisting of halogen, cyano, alkoxy having 1 to 4 carbon atoms, and cycloalkyl having 3 to 6 carbon atoms; represents cycloalkyl having 3 to 6 carbon atoms that is optionally mono- to trisubstituted by identical or different substituents selected from the group consisting of halogen and alkyl having 1 to 4 carbon atoms; or represents saturated or unsaturated heterocyclyl having 5 or 6 ring members and 1 to 3 heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, where the heterocyclyl is optionally mono- or disubstituted by halogen, alkyl having 1 to 4 carbon atoms, cyano, nitro, and/or cycloalkyl having 3 to 6 carbon atoms,

R<sup>2</sup> represents hydrogen or alkyl having 1 to 4 carbon atoms, or

R<sup>1</sup> and R<sup>2</sup> together with the nitrogen atom to which they are attached represent a saturated or unsaturated heterocyclic ring having 3 to 6 ring members, where the heterocycle optionally contains a further nitrogen, oxygen, or sulfur atom as ring member and where the heterocycle is optionally substituted with one to three fluorine, chlorine, bromine, alkyl having 1 to 4 carbon atoms, and/or haloalkyl having 1 to 4 carbon atoms and 1 to 9 fluorine and/or chlorine atoms,

R<sup>3</sup> represents hydrogen, fluorine, chlorine, bromine, iodine, alkyl having 1 to 4 carbon atoms, haloalkyl having 1 to 4 carbon atoms and 1 to 9 halogen atoms, or cycloalkyl having 3 to 6 carbon atoms,

R<sup>4</sup> represents hydrogen, alkyl having 1 to 4 carbon atoms, haloalkyl having 1 to 4 carbon atoms in the alkyl moiety, cycloalkyl having 3 to 6 carbon atoms, alkoxyalkyl having 1 or 2 carbon atoms in the alkoxy moiety and 1 to 4 carbon atoms in the alkyl moiety, alkenyl having 2 to 5 carbon atoms, alkynyl having 2 to 5 carbon atoms, or benzyl,

R<sup>5</sup> represents hydrogen, alkyl having 1 to 4 carbon atoms, haloalkyl having 1 to 4 carbon atoms in the alkyl moiety, cycloalkyl having 3 to 6 carbon atoms, alkoxyalkyl having 1 or 2 carbon atoms in the alkoxy moiety and 1 to 4 carbon atoms in the alkyl moiety, alkenyl having 2 to 5 carbon atoms, alkynyl having 2 to 5 carbon atoms, or benzyl,

R<sup>6</sup> represents hydrogen, alkyl having 1 to 4 carbon atoms, alkoxyalkyl having 1 to 2 carbon atoms in the alkoxy moiety and 1 to 4 carbon atoms in the alkyl moiety, alkenyl having 2 to 5 carbon atoms, alkynyl having 2 to 5 carbon atoms, or benzyl, or

R<sup>5</sup> and -OR<sup>6</sup> together represent a radical of the formula  $\text{—O—(CH}_2\text{)}_p\text{—O—}$

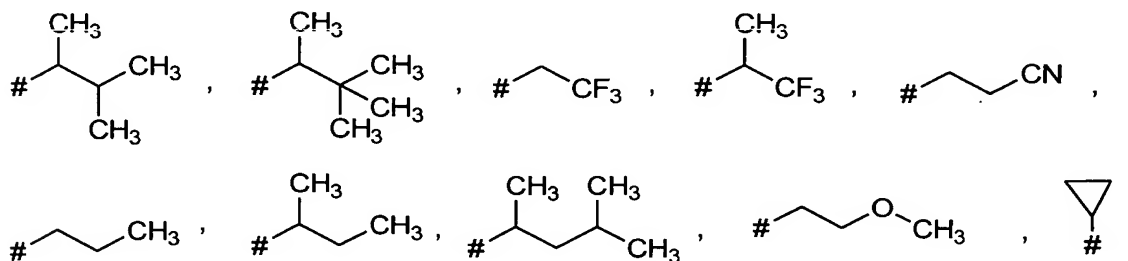
in which

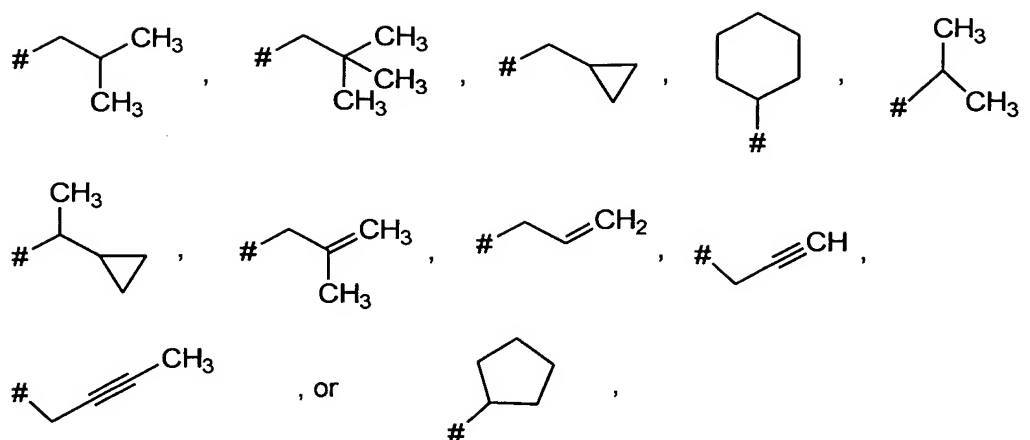
p represents 2, 3, or 4, and

1 or 2 hydrogen atoms are optionally replaced by methyl, ethyl, hydroxy, methoxy, ethoxy, hydroxymethyl, methoxymethyl, or ethoxymethyl,

R<sup>8</sup> represents phenyl that is optionally mono- to tetrasubstituted by identical or different substituents selected from the group consisting of halogen, cyano, nitro, amino, hydroxy, formyl, carboxy, carbamoyl, and thiocarbamoyl, of straight-chain or branched alkyl, alkoxy, alkylthio, alkylsulfinyl, or alkylsulfonyl having in each case 1 to 6 carbon atoms, of straight-chain or branched alkenyl or alkenyl having in each case 2 to 6 carbon atoms, of straight-chain or branched haloalkyl, haloalkoxy, haloalkylthio, haloalkylsulfinyl, or haloalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms, of straight-chain or branched haloalkenyl or haloalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms, of straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylsulfonyloxy, hydroximinoalkyl, or alkoximinoalkyl having in each case 1 to 6 carbon atoms in the individual alkyl moieties, of cycloalkyl having 3 to 6 carbon atoms, and of 2,3-attached 1,3-propanediyl, 1,4-butanediyl, methylenedioxy (-O-CH<sub>2</sub>-O-) or 1,2-ethylenedioxy (-O-CH<sub>2</sub>-CH<sub>2</sub>-O-) that are optionally mono- to polysubstituted by identical or different substituents selected from the group consisting of halogen, alkyl having 1 to 4 carbon atoms, and haloalkyl having 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms.

R<sup>1</sup> represents a radical of the formula

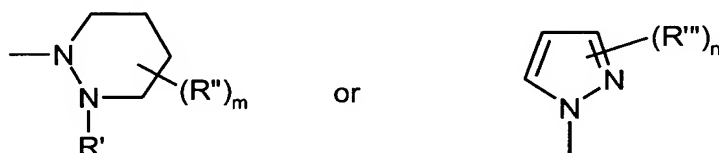




where # denotes the point of attachment and where each of the possible stereoisomers or else mixtures thereof are present for radicals that are optionally present in optically active form,

R<sup>2</sup> represents hydrogen, methyl, ethyl, or propyl, or

R<sup>1</sup> and R<sup>2</sup> together with the nitrogen atom to which they are attached represent pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, 3,6-dihydro-1(2H)-piperidinyl, or tetrahydro-1(2H)-pyridazinyl, each of which radicals is optionally substituted by 1 to 3 fluorine atoms, 1 to 3 methyl groups, and/or trifluoromethyl; or represent a radical of the formula



in which

R' represents hydrogen or methyl,

R'' represents methyl, ethyl, fluorine, chlorine, or trifluoromethyl,

m represents the number 0, 1, 2 or 3, where R'' represents identical or different radicals if m represents 2 or 3,

R''' represents methyl, ethyl, fluorine, chlorine or trifluoromethyl, and

n represents the number 0, 1, 2 or 3, where R''' represents identical or different radicals if n represents 2 or 3,

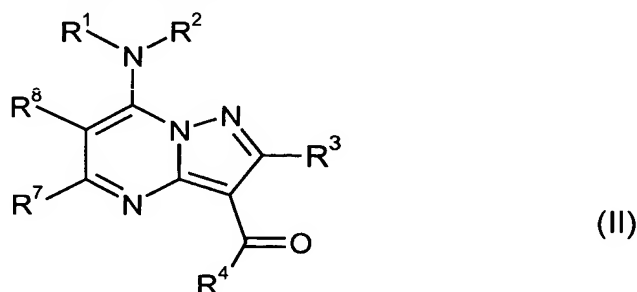
R<sup>3</sup> represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, isopropyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, trifluoromethyl, 1-trifluoromethyl-2,2,2-trifluoroethyl, or heptafluoroisopropyl,

- R<sup>4</sup> represents hydrogen, methyl, ethyl, propyl, methoxymethyl, methoxyethyl, alkenyl having 3 or 4 carbon atoms, alkynyl having 3 or 4 carbon atoms, or benzyl,
- R<sup>5</sup> represents hydrogen, methyl, ethyl, propyl, methoxymethyl, methoxyethyl, alkenyl having 3 or 4 carbon atoms, alkynyl having 3 or 4 carbon atoms, or benzyl,
- R<sup>6</sup> represents hydrogen, methyl, ethyl, propyl, methoxymethyl, methoxyethyl, alkenyl having 3 or 4 carbon atoms, alkynyl having 3 or 4 carbon atoms, or benzyl, or
- R<sup>5</sup> and -OR<sup>6</sup> together represent a radical of the formula  $\text{—O—CH}_2\text{—CH}_2\text{—O—}$  in which 1 or 2 hydrogen atoms are optionally replaced by methyl, ethyl, hydroxy, methoxy, ethoxy, hydroxymethyl, methoxymethyl, or ethoxymethyl,
- R<sup>7</sup> represents fluorine, chlorine, bromine, methoxy, ethoxy, methylthio, methylsulfinyl, or methylsulfonyl, and
- R<sup>8</sup> represents phenyl which may be mono- to trisubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine, bromine, cyano, nitro, formyl, methyl, ethyl, n- or i-propyl, n-, i-, s-, or t-butyl, allyl, propargyl, methoxy, ethoxy, n- or i-propoxy, methylthio, ethylthio, n- or i-propylthio, methylsulfinyl, ethylsulfinyl, methylsulfonyl, ethylsulfonyl, allyloxy, propargyloxy, trifluoromethyl, trifluoroethyl, difluoromethoxy, trifluoromethoxy, difluorochloromethoxy, trifluoroethoxy, difluoromethylthio, difluorochloromethylthio, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl, trichloroethynyloxy, trifluoroethynyloxy, chloroallyloxy, iodopropargyloxy, methylamino, ethylamino, n- or i-propylamino, dimethylamino, diethylamino, acetyl, propionyl, acetyloxy, methoxycarbonyl, ethoxycarbonyl, hydroximinomethyl, hydroximinomethyl, methoximinomethyl, ethoximinomethyl, methoximinomethyl, ethoximinomethyl, cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, and of 2,3-attached 1,3-propanediyl, methylenedioxy ( $\text{—O—CH}_2\text{—O—}$ ) or 1,2-ethylenedioxy ( $\text{O—CH}_2\text{—CH}_2\text{—O}$ ) that are optionally mono- or poly-substituted by identical or different substituents selected from the group consisting of fluorine, chlorine, methyl, ethyl, n-propyl, i-propyl, and trifluoromethyl.

Claim 14 (new): A pyrazolopyrimidine of formula (I) as claimed in Claim 11 in which  
 $R^7$  represents fluorine, chlorine, bromine, CN, methyl, methoxy, or methylthio and  
 $R^8$  represents 2,4-, 2,5-, or 2,6-disubstituted phenyl, 2-substituted phenyl, or 2,4,6-trisubstituted phenyl, where the substituents are selected from the group consisting of fluorine, chlorine, bromine, cyano, nitro, formyl, methyl, ethyl, n- or i-propyl, n-, i-, s-, or t-butyl, allyl, propargyl, methoxy, ethoxy, n- or i-propoxy, methylthio, ethylthio, n- or i-propylthio, methylsulfinyl, ethylsulfinyl, methylsulfonyl, ethylsulfonyl, allyloxy, propargyloxy, trifluoromethyl, trifluoroethyl, difluoromethoxy, trifluoromethoxy, difluorochloromethoxy, trifluoroethoxy, difluoromethylthio, difluorochloromethylthio, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl, trichloroethynyloxy, trifluoroethynyloxy, chloroallyloxy, iodopropargyloxy, methylamino, ethylamino, n- or i-propylamino, dimethylamino, diethylamino, acetyl, propionyl, acetyloxy, methoxycarbonyl, ethoxycarbonyl, hydroximinomethyl, hydroximinoethyl, methoximinomethyl, ethoximinomethyl, methoximinoethyl, ethoximinoethyl, cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, and of 2,3-attached 1,3-propanediyl, methylenedioxy (-O-CH<sub>2</sub>-O-) or 1,2-ethylenedioxy (O-CH<sub>2</sub>-CH<sub>2</sub>-O) that are optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine, methyl, ethyl, n-propyl, i-propyl, and trifluoromethyl.

Claim 15 (new): A process for preparing pyrazolopyrimidines of formula (I) as claimed in Claim 11 comprising

(a) reacting a pyrazolopyrimidine of formula (II)



in which

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^7$ , and  $R^8$  are as defined for formula (I) of Claim 11,

either

( $\alpha$ ) with diisobutylaluminum hydride in the presence of aqueous ammonium chloride solution and in the presence of an organic diluent or with sodium borohydride in the presence of a diluent,

or

( $\beta$ ) with a Grignard compound of formula (III)



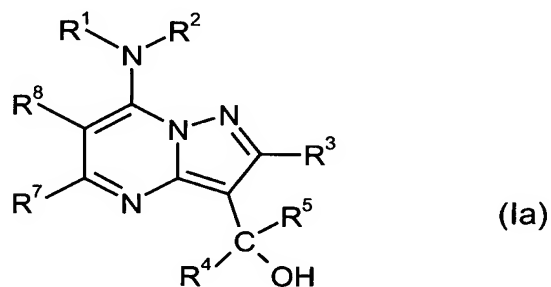
in which

$R^9$  represents alkyl, alkoxyalkyl, alkenyl, alkynyl, or benzyl, and

$X$  represents chlorine, bromine, or iodine,

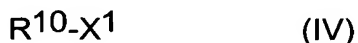
in the presence of a catalyst and in the presence of a diluent,

to form, according to variant ( $\alpha$ ) or ( $\beta$ ), a pyrazolopyrimidine of formula (Ia)



in which  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^7$ , and  $R^8$  are as defined for formula (I) of Claim 11,

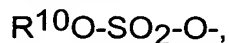
and optionally reacting the pyrazolopyrimidine of formula (Ia) with a compound of formula (IV)



in which

$R^{10}$  represents alkyl, alkoxyalkyl, alkenyl, alkynyl, or benzyl, and

$X^1$  represents chlorine, bromine, iodine, or the radical

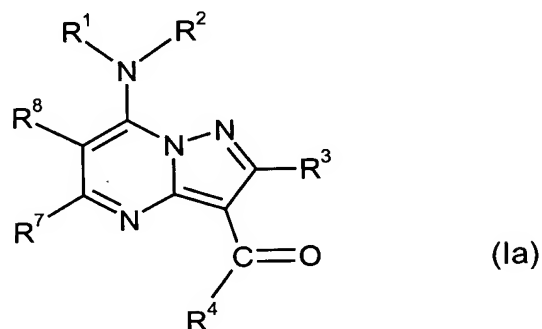


optionally in the presence of a base and optionally in the presence of a diluent,

or

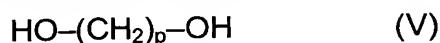


(b) reacting a pyrazolopyrimidine of formula (Ia)



in which R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>7</sup>, and R<sup>8</sup> are as defined for formula (I) of Claim 11,

with a diol of formula (V)



in which

p represents an integer from 1 to 5, and

1 to 3 hydrogen atoms are optionally replaced by methyl, ethyl, hydroxy, methoxy, ethoxy, hydroxymethyl, methoxymethyl, or ethoxymethyl,

in the presence of a catalyst and optionally in the presence of a diluent.

Claim 16 (new) A composition for controlling unwanted microorganisms comprising one or more pyrazolopyrimidines of formula (I) according to Claim 11 and one or more extenders and/or surfactants.

Claim 17 (new): A composition as claimed in Claim 16 additionally comprising at least one additional fungicidally or insecticidally active component.

Claim 18 (new): A method for controlling unwanted microorganisms comprising applying an effective amount of a pyrazolopyrimidine of formula (I) according to Claim 11 to the unwanted microorganisms and/or their habitats.

Claim 19 (new): A process for preparing compositions for controlling unwanted microorganisms comprising mixing one or more pyrazolopyrimidines of formula (I) according to Claim 11 with one or more extenders and/or surfactants. --